CONTENTS

Number 1, February 1994

1 Editorial

2 Referees 1993/Journal Bursary Announcement

3 Annotation. Hirano bodies and related neuronal inclusions
A. Hirano

12 Hirano bodies and chronic alcoholism
R. Laas and C. Hagel

22 Autosomal dominant arteriopathic leuko-encephalopathy and Alzheimer's disease
F. Gray, F. Robert, R. Labrecque, F. Chrétien, M. Baudrimont, C. Fallet-Bianco, J. Mikol and H. V. Vinters

31 Partial reversal of aluminium-induced neurofibrillary degeneration by desferrioxamine in adult male rabbits
J. Savory, M. M. Herman, R. T. Erasmus, J. C. Boyd and M. R. Wills

38 The Purkinje cell in olivopontocerebellar atrophy. A Golgi amd immunocytochemical study
I. Ferrer, D. Genís, A. Dávalos, L. Bernadó, F. Sant and T. Serrano

47 Characterization of the microglial response in murine scrapie
A. E. Williams, L. J. Lawson, V. H. Perry and H. Fraser

56 Oedema-related tissue damage after temporary and permanent occlusion of the middle cerebral artery
C. Nordborg, T. E. O. Sokrab and B. B. Johansson

66 New immunocytochemical evidence for a neuronal/oligodendroglial origin for corpora amylacea
S. K. Singhrao, J. W. Neal, S. J. Piddlesden and G. R. Newman

74 Microsatellite analysis of loss of heterozygosity on chromosomes 9q, 11p and 17p in medulloblastomas
S. Albrecht, A. Von Deimling, T. Pietsch, F. Giangaspero, S. Brandner, P. Kleihues and O. D. Wiestler

82 Meeting report

87 Book reviews

90 Future meetings

Number 2, April 1994

91 Annotation. Analysis of the molecular basis of neuropathogenesis of RNA viruses in experimental animals: relevance for human disease?
G. J. Atkins, I. M. Balluz, G. M. Glasgow, M. J. E. M. F. Mabruk, V. A. I. Natale, J. M. B. Smyth and B. J. Sheahan

103 Association of measles virus with neurofibrillary tangles in subacute sclerosing panencephalitis: a combined *in situ* hybridization and immunocytochemical investigation
S. McQuaid, I. V. Allen, J. McMahon and J. Kirk

111 Iatrogenic Creutzfeldt-Jakob disease in three growth hormone recipients: a neuropathological study
T. Billette de Villemeur, A. Gelot, J. P. Deslys, D. Dormont, Ch. Duyckaerts, L. Jardin, J. Denni and O. Robain

118 Short communication. Detection of multidrug resistance gene produce (P-glycoprotein) expression in ependymomas
J. F. Geddes, G. H. Vowles, S. M. Ashmore, H. A. Cockburn and J. L. Darling

122 Neuropathological changes following occlusion of the superior sagittal sinus and cerebral veins in the cat
J. Cervós-Navarro, S. Kannuki and K. Matsumoto

130 Interactions between fetal rat brain cells and mature brain tissue *in vivo* and *in vitro*
K. Marienhagen, P.-H. Pedersen, A. J. A. Terzis, O. D. Lerum, H. Arnold and R. Bjerkvig

144 Microglial aggregation in the dentate gyrus: a marker of mild hypoxic-ischaemic brain insult in human infants
M. R. Del Bigio and L. E. Becker

152 Low density lipoprotein uptake by macrophages in multiple sclerosis plaques: implications for pathogenesis
J. Newcombe, H. Li and M. L. Cuzner

163 Reactive cell proliferation and microglia following injury to the rat brain
M. T. Giordana, A. Attanasio, P. Cavalla, A. Migheli, M. C. Vigliani and D. Schiffer

175 First International Symposium on Microglia

217 Future meetings

Number 3, June 1994

219 Annotation. Excitatory amino acids, free radicals and the pathogenesis of motor neuron disease
S. Zeman, C. Lloyd, B. Meldrum and P. N. Leigh

232 Annotation. Skeletal muscle involvement in HIV-infected patients
R. K. Gherardi

238 Absence of coxsackie viruses in idiopathic inflammatory muscle disease by *in situ* hybridization
D. A. Hilton, A. Fletcher and J. H. Pringle

243 Primary central nervous system malignant non-Hodgkin's lymphomas from HIV-infected and non-infected patients: expression of cellular surface proteins and Epstein-Barr viral markers
I. Auperin, J. Mikol, E. Oksenhendler, J. B. Thiebaut, M. Brunet, B. Dupont and F. Morinet

253 Herpes simplex virus type 1 gene expression and reactivation of latent infection in the central nervous system
I. Steiner, N. Mador, I. Reibstein, J. G. Spivack and N. W Fraser

261 A morphological and functional assessment of *Mycobacterium leprae*-induced nerve damage in a guinea-pig model of leprous neuritis
G. E. de Blaquière, L. Santamaria, J. Curtis, G. Terenghi, J. M. Polak and J. L. Turk

272 Oligodendrocyte reactions and cell proliferation markers in human demyelinating diseases
C. S. Morris, M. M. Esiri, T. J. Sprinkle and N. Gregson

282 Ubiquitin and neurofilament expression in anterior horn cells in amyotrophic lateral sclerosis: possible clues to the pathogenesis
A. Migheli, A. Attansio and D. Schiffer

290 Magnetic resonance imaging evaluation of the effects of ageing on grey-white ratio in the human brain
G. J. Harris, T. E. Schlaepfer, L. W. Peng, S. Lee, E. B. Federman and G. D. Pearlson

294 Proceedings of the Eighty-Seventh Meeting of the British Neuropathological Society

314 Obituary. Bertil Johan Patrick Sourander

316 Future meetings

317 Book reviews

Number 4, August 1994

Symposium: Molecular genetics of neurodegenerative diseases and psychoses

319 Introduction
J. Lowe

322 Dorothy Russell Memorial Lecture
The molecular pathology of Alzheimer's disease: are we any closer to understanding the neurodegenerative process?
C. Smith and B. H. Anderton

339 Defining the limits of prion disease
R. M. Ridley

344 The molecular genetics of schizophrenia
A. G. Cardno and P. McGuffin

350 Analysing brain function and dysfunction in transgenic animals
R. Lathe and R. G. M. Morris

359 Expression of utrophin (dystrophin-related protein) during regeneration and maturation of skeletal muscle in canine X-linked muscular dystrophy
L. A. Wilson, B. J. Cooper, L. Dux, V. Dubowitz and C. A. Sewry

368 A molecular and cellular model to explain the differences in reactivation from latency by herpes simplex and varicella-zoster viruses
P. G. E. Kennedy and I. Steiner

375 Prion protein immunocytochemistry: reliable protocols for the investigation of Creutzfeldt-Jakob disease
P. A. R. Hayward, J. E. Bell and J. W. Ironside

384 Lewis rat EAN is suppressed by the 21-aminosteroid tirilazad mesylate (U-74006F)
T. E. Feasby, A. F. Hahn, D. Lovgren and L. Wilkie

392 MHC Class II expression by microglia in tetanus toxin-induced experimental epilepsy in the rat
J. A. G. Shaw, V. H. Perry and J. Mellanby

399 CD44 plays a role in adhesive interactions between glioma cells and extracellular matrix components
B. Radotra, D. McCormick and A. Crockard

406 Letter to the Editor: CR3/43, a marker for activated human microglia: application to diagnostic neuropathology
M. B. Graeber, K. Bise and P. Mehraein

409 Future meetings

410 Acknowledgement: First International Symposium on Microglia
Journal Bursaries for Collaborative Research

411 The Alfred Meyer Memorial Award

Number 5, October 1994

413 Review. Neuroendocrine-immune interactions in homeostasis and autoimmunity
T. Smith and M. L. Cuzner

423 Review. Hierarchical cortical control of neuroimmunomodulatory pathways
A. D. Watkins

432 Detection of numerical chromosome aberrations in brain tumours by fluorescence *in situ* hybridization on smear preparations of small tumour biopsies
M. Löw, W. Feiden, J. R. Moringlane, K. D. Zang and W. Henn

439 Platelet-derived growth factor (PDGF) and receptor (PDGFR) expression in human meningiomas: correlations with clinicopathological features and cytogenic analysis
D. Figarella-Branger, A. M. Vagner-Capodano, P. Bouillot, N. Graziani, D. Gambarelli, B. Devictor, H. Zattara-Cannoni, N. Bianco, F. Grisoli and J. F. Pellissier

448 Selective closure of the vascular bed of an experimental glioma model during *in situ* saline profusion
P. J. Luthert and J. Greenwood

454 Review. How to detect gold, silver and mercury in human brain and other tissues by auto-metallographic silver amplification
G. Danscher, M. Stoltenberg and S. Juhl

468 Transferrin receptors in the Parkinsonian midbrain
C. M. Morris, J. M. Candy, S. Omar, C. A. Bloxham and J. A. Edwardson

473 Transferrin receptors in the normal human hippocampus and in Alzheimer's disease
C. M. Morris, J. M. Candy, J. M. Kerwin and J. A. Edwardson

478 A modified NOR-silver impregnation technique for amyloid plaques and neurofibrillary tangles: comparative assessment
H. Abe, P. Mehraein and S. Weis

487 Freeze-fracture analysis of muscle plasma membrane in Becker's muscular dystrophy
S. Shibuya, Y. Wakayama, T. Jimi, H. Oniki, T. Kobayshi, N. Misugi, T. Kumagai, O. Hasegawa, Y. Suzuki and Y. Kuroiwa

495 Parvalbumin immunohistochemistry in denervated skeletal muscle
M. Olive and I. Ferrer

501 Proceedings of the Eighty-Eighth Meeting of the British Neuropathological Society

520 Book reviews

523 Future meetings

524 Journal Bursary Announcement

Number 6, December 1994

525 Review. Aspects of canine distemper virus and measles virus encephalomyelitis
B. A. Summers and M. J. G. Appel

535 Morphogenesis of amyloid plaques in 87V murine scrapie
M. Jeffrey, C. M. Goodsir, M. E. Bruce, P. A. McBride and C. Farquhar

543 The nasal route of cerebrospinal fluid drainage in man. A light-microscope study
P. Löwhagen, B. B. Johansson and C. Nordborg

551 Spread of malignant lymphoid cells into rat central nervous system with intact and disrupted blood–brain barrier
R. Aho, S. Vaittinen, K. Jahnukainen and H. Kalimo

562 Review. *In situ* hybridization in neuropathology
M. N. Woodroofe, M. L. Cuzner and J. W. Ironside

573 Demonstration of mitochondrial ribosomal RNA in frozen and paraffin-embedded sections of skeletal muscle by *in situ* hybridization
D. A. Hilton, S. Love, T. Goodwin and J. H. Pringle

577 Increased production of ubiquitin mRNA in motor neurons after axotomy
S. Savedia and J. A. Kiernan

587 Are Schwann cells essential for axonal regeneration into muscle autografts?
M. K. Enver and S. M. Hall

599 Hypothesis. Is Purkinje cell loss in Leigh's disease an excitotoxic event secondary to damage to inferior olivary nuclei?
J. B. Cavanagh

604 Characterization of T-cell subclasses and NK-cells in lysosomal disorders by immuno-electron microscopy
B. C. Kieseier and H. H. Goebel

609 Unusual ubiquitin-positive glial cells in the globus pallidus of normal elderly human brains
H. Abe, P. Mehraein and S. Weis

614 Overexpression of the *18A2/mts*1 gene and down-regulation of the TIMP-2 gene in invasive human glioma cell lines *in vitro*
A. Merzak, C. Parker, S. Koochekpour, G. V. Sherbet and G. J. Pilkington

620 Book reviews

624 Future meetings

625 Index to Volume 20